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DEPARTMENT OF THE ARMY JUSTIFICATION OF ESTIMATES FOR FISCAL YE--ETC(U)
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DEPARTMENT OF THE ARMY

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1982

SUBMITTED TO CONGRESS

JANUARY 1981.

Part 3. Weapons and Tracked Combat Vehicle.



PART 3 OF 5 PARTS
(WEAPONS & TRACKED
COMBAT VEHICLES)

PROCUREMENT

PROGRAMS

| | |
|-----------------------------------|----------|
| AIRCRAFT | MISSILES |
| WEAPONS & TRACKED COMBAT VEHICLES | |
| AMMUNITION | OTHER |

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DEPARTMENT OF THE ARMY
Office of the Deputy Chief of Staff
For
RESEARCH, DEVELOPMENT, AND ACQUISITION

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January 1981

DEPARTMENT OF THE ARMY

PROCUREMENT APPROPRIATIONS

Justification of Estimates for Fiscal Years 1982, 83 (Auth Only)

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DEPARTMENT OF THE ARMY

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1982, 1983

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PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 1

Budget Appendix Extract

Language

Program and Financing Schedule

Object Classification Schedule

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefor, specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, without regard to section 4774, title 10, United States Code, for the foregoing purposes, and such lands and interest therein, may be acquired, and construction prosecuted thereon prior to approval of title as required by section 355, Revised Statutes, as amended; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes: \$2,582,200,000 \$2,719,800,000 to remain available for obligation until September 30, 1983 1984. (1)
(2)

EXPLANATION OF LANGUAGE CHANGES

- (1) To change the amount of appropriation requested for FY 1982.
- (2) To change the obligation expiration date for the FY1982 program.

Army

Procurement of Weapons and Tracked Combat Vehicles, Army

15 JAN 81

Program and Financing (in thousands of dollars)

| Identification code | 21-2033-0-1-051 | Budget plan (amounts for procurement actions programmed) | | | | Obligations | |
|-------------------------------------|---|--|-----------|-----------|-------------|-------------|------------|
| | | 1980 actual | 1981 est. | 1982 est. | 1980 actual | 1981 est. | 1982 est. |
| Program by activities: | | | | | | | |
| Direct: | | | | | | | |
| 1. | Tracked combat vehicles | 1,651,654 | 2,273,400 | 2,395,000 | 1,505,509 | 2,304,799 | 2,416,358 |
| 2. | Weapons and other combat vehicles | 159,415 | 308,800 | 324,800 | 142,302 | 274,999 | 225,015 |
| | Total direct | 1,811,069 | 2,582,200 | 2,719,800 | 1,647,811 | 2,579,798 | 2,643,373 |
| | Reimbursable program (total) | 1,274,828 | 816,100 | 490,700 | 1,045,157 | 853,702 | 587,627 |
| | Total | 3,085,897 | 3,398,300 | 3,210,500 | 2,692,968 | 3,433,500 | 3,231,000 |
| Financing: | | | | | | | |
| Offsetting collections from: | | | | | | | |
| 11.00 | Federal funds | -50,783 | -53,900 | -60,600 | -45,684 | -52,700 | -60,600 |
| 13.00 | Trust funds | -1,282,048 | -760,200 | -430,100 | -1,281,334 | -757,200 | -430,100 |
| 14.00 | Non-federal sources | -98 | -2,000 | | -115 | -2,000 | |
| 17.00 | Recovery of prior year obligations, obl plan | | | | -31,953 | | |
| 21.40 | Unobligated balance available, start of year: | | | | | | |
| 21.40 | For completion of prior year budget plans | | | | -324,292 | -698,084 | -658,684 |
| 21.40 | Available to finance new budget plans | | | | -12,100 | | |
| 21.40 | Reprogramming from or to prior year budget plan | -45,294 | | | | | |
| 23.40 | Unobligated balance transferred to other accounts | 1,816 | | | 1,816 | | |
| 24.40 | Unobligated balance available, end of year | | | | 698,084 | 698,684 | 638,184 |
| 25.00 | Unobligated balance lapsing | 26,578 | | | 26,578 | | |
| 39.00 | Budget authority | 1,723,968 | 2,582,200 | 2,719,800 | 1,723,968 | 2,582,200 | 2,719,800 |
| Budget authority: | | | | | | | |
| 40.00 | Appropriation | 1,824,100 | 2,582,200 | 2,719,800 | 1,824,100 | 2,582,200 | 2,719,800 |
| 41.00 | Appropriation rescinded | -29,000 | | | -29,000 | | |
| 41.00 | Transferred to other accounts | -83,232 | | | -83,232 | | |
| 43.00 | Appropriation (adjusted) | 1,711,868 | 2,582,200 | 2,719,800 | 1,711,868 | 2,582,200 | 2,719,800 |
| 50.00 | Reappropriation | 12,100 | | | 12,100 | | |
| Relation of obligations to outlays: | | | | | | | |
| 71.00 | Obligations incurred, net | | | | 1,365,835 | 2,621,600 | 2,740,300 |
| 72.40 | Obligated balance, start of year | | | | 2,106,865 | 2,192,226 | 2,811,626 |
| 74.40 | Obligated balance, end of year | | | | -2,192,226 | -2,811,626 | -3,226,126 |
| 77.00 | Adjustments in expired accounts | | | | 43 | | |
| 78.00 | Adjustments in unexpired accounts | | | | -31,953 | | |
| 90.00 | Outlays | | | | 1,248,554 | 2,002,000 | 2,326,000 |

Army

Procurement of Weapons and Tracked Combat Vehicles, Army

15 JAN 81

Object Classification (in thousands of dollars)

| Identification code | 21-2033-0-1-051 | 1980 actual | 1981 est. | 1982 est. |
|----------------------------------|--------------------------------|-------------|-----------|-----------|
| Direct obligations: | | | | |
| Other services: | | | | |
| 25.0 | Other | 466,559 | 844,900 | 756,200 |
| 26.0 | Supplies and materials | 195,100 | 360,900 | 323,000 |
| 31.0 | Equipment | 986,152 | 1,373,998 | 1,564,173 |
| 99.0 | Total direct obligations | 1,647,811 | 2,579,798 | 2,643,373 |
| Reimbursable obligations: | | | | |
| Other services: | | | | |
| 25.0 | Other | 318,182 | 229,800 | 173,600 |
| 26.0 | Supplies and materials | 131,400 | 98,100 | 74,100 |
| 31.0 | Equipment | 695,576 | 525,802 | 339,927 |
| 99.0 | Total reimbursable obligations | 1,045,157 | 853,702 | 587,627 |
| 99.9 | Total obligations | 2,692,968 | 3,433,500 | 3,231,000 |

| Army | Procurement of Weapons and Tracked Combat Vehicles, Army | | | | 15 JAN 81 |
|---|--|--|-----------|-------------|---------------------------------|
| Program and Financing (in thousands of dollars) | | | | | 1978 Fiscal year program |
| Identification code | 21-2033-0-1-051 | Budget plan (amounts for procurement actions programmed) | | Obligations | |
| | | 1980 actual | 1981 est. | 1982 est. | 1980 actual 1981 est. 1982 est. |
| Program by activities: | | | | | |
| Direct: | | | | | |
| | 1. Tracked combat vehicles | | | | 50,402 |
| | 2. Weapons and other combat vehicles | | | | 4,116 |
| | Total direct | | | | 54,518 |
| | Reimbursable program (total) | | | | 19,997 |
| 10.00 | Total | | | | 74,515 |
| Financing: | | | | | |
| Offsetting collections from: | | | | | |
| 11.00 | Adjustment to pay federal fund orders | | | | 4,634 |
| 13.00 | Adjustment to pay trust fund orders | | | | 4,658 |
| 14.00 | Adjustment to non-federal sources | | | | -17 |
| 17.00 | Recovery of prior year obligations, obl plan | | | | -17,042 |
| | Unobligated balance available, start of year: | | | | |
| 21.40 | For completion of prior year budget plans | | | | -95,388 |
| 23.40 | Reprogramming from or to prior year budget plan | -28,639 | | | |
| | Unobligated balance transferred to other accounts | 1,161 | | | 1,161 |
| 25.00 | Unobligated balance lapsing | 14,478 | | | 14,478 |
| 40.00 | Budget authority | -13,000 | | | -13,000 |

| Army | Procurement of Weapons and Tracked Combat Vehicles, Army | 15 JAN 81 |
|--|--|--------------------------|
| Identification code | 21-2033-0-1-051 | |
| Program and Financing (in thousands of dollars) | | 1979 Fiscal year program |
| Budget plan (amounts for procurement actions programmed) | | Obligations |
| 1980 actual | 1981 est. | 1982 est. |
| 1980 actual | 1981 est. | 1982 est. |
| Program by activities: | | |
| Direct: | | |
| 10.00 | 1. Tracked combat vehicles | 115,455 |
| | 2. Weapons and other combat vehicles | 8,462 |
| | Total direct | 123,917 |
| | Reimbursable program (total) | 18,910 |
| | Total | 142,827 |
| | 47,926 | |
| | 10,468 | |
| | 58,394 | |
| | 25,220 | |
| | 83,614 | |
| Financing: | | |
| Offsetting collections from: | | |
| 11.00 | Adjustment to pay federal fund orders | 465 |
| 13.00 | Adjustment to pay trust fund orders | -3,944 |
| 17.00 | Recovery of prior year obligations, obi plan | -14,911 |
| | Unobligated balance available, start of year: | |
| 21.40 | For completion of prior year budget plans | -228,904 |
| 21.40 | Available to finance new budget plans | -12,100 |
| 21.40 | Reprogramming from or to prior year budget plan | -12,100 |
| 23.40 | Unobligated balance transferred to other accounts | 655 |
| 24.40 | Unobligated balance available, end of year | 87,814 |
| 25.00 | Unobligated balance lapsing | 12,100 |
| 40.00 | Budget authority | -16,000 |

| Program and Financing (in thousands of dollars) | | | | | 1980 Fiscal year program | | |
|---|--|--|-----------|-----------|--------------------------|-----------|-----------|
| Identification code | 21-2033-0-1-051 | Budget plan (amounts for procurement actions programmed) | | | Obligations | | |
| | | 1980 actual | 1981 est. | 1982 est. | 1980 actual | 1981 est. | 1982 est. |
| | | | | | | | |
| Program by activities: | | | | | | | |
| Direct: | | | | | | | |
| | 1. Tracked combat vehicles | 1,651,654 | | | 1,339,652 | 185,558 | 126,444 |
| | 2. Weapons and other combat vehicles | 159,415 | | | 129,724 | 11,876 | 17,815 |
| | Total direct | 1,811,069 | | | 1,469,376 | 197,434 | 144,259 |
| | Reimbursable program (total) | 1,274,828 | | | 1,006,250 | 134,721 | 133,856 |
| | Total | 3,085,897 | | | 2,475,626 | 332,155 | 278,115 |
| 10.00 | | | | | | | |
| Financing: | | | | | | | |
| Offsetting collections from: | | | | | | | |
| | Federal funds | -50,783 | | | -50,783 | | |
| 11.00 | | -1,282,048 | | | -1,282,048 | | |
| 13.00 | Trust funds | -98 | | | -98 | | |
| 14.00 | Non-federal sources | | | | | | |
| 21.40 | Unobligated balance available, start of year | | | | | -610,270 | -278,115 |
| 24.40 | Unobligated balance available, end of year | | | | 610,270 | 278,115 | |
| | Budget authority | 1,752,968 | | | 1,752,968 | | |
| 39.00 | | | | | | | |
| Budget authority: | | | | | | | |
| | Appropriation | 1,824,100 | | | 1,824,100 | | |
| 40.00 | Transferred to other accounts | -83,232 | | | -83,232 | | |
| 41.00 | | | | | | | |
| 43.00 | Appropriation (adjusted) | 1,740,868 | | | 1,740,868 | | |
| 50.00 | Reappropriation | 12,100 | | | 12,100 | | |

| Army | Procurement of Weapons and Tracked Combat Vehicles, Army | | | | 15 JAN 81 |
|---|--|--|-----------|-----------|--------------------------|
| Program and Financing (in thousands of dollars) | | | | | 1981 Fiscal year program |
| Identification code | 21-2033-0-1-051 | Budget plan (amounts for procurement actions programmed) | | | Obligation |
| | | 1980 actual | 1981 est. | 1982 est. | 1980 actual |
| Program by activities: | | | | | |
| Direct: | | | | | |
| 1. Tracked combat vehicles | | | 2,273,400 | | 2,071,315 |
| 2. Weapons and other combat vehicles | | | 308,800 | | 252,655 |
| Total direct | | | 2,582,200 | | 2,323,970 |
| Reimbursable program (total) | | | 816,100 | | 693,761 |
| Total | | | 3,398,300 | | 3,017,731 |
| 10.00 | | | | | 87,970 |
| Financing: | | | | | |
| Offsetting collections from: | | | | | |
| 11.00 | Federal funds | | -53,900 | | -53,900 |
| 13.00 | Trust funds | | -760,200 | | -760,200 |
| 14.00 | Non-federal sources | | -2,000 | | -2,000 |
| 21.40 | Unobligated balance available, start of year | | | | -90,569 |
| 24.40 | Unobligated balance available, end of year | | | | 232,598 |
| 40.00 | Budget authority | | 2,582,200 | | 2,582,200 |

| Army | Procurement of Weapons and Tracked Combat Vehicles, Army | 15 JAN 81 | | | | |
|--|--|--------------------------|-----------|-------------|-----------|-----------|
| Identification code | 21-2033-0-1-051 | | | | | |
| Program and Financing (in thousands of dollars) | | 1982 Fiscal year program | | | | |
| Budget plan (amounts for procurement actions programmed) | | Obligations | | | | |
| | 1980 actual | 1981 est. | 1982 est. | 1980 actual | 1981 est. | 1982 est. |
| Program by activities: | | | | | | |
| Direct: | | | | | | |
| 10.00 | 1. Tracked combat vehicles | 2,395,000 | | | | 2,246,220 |
| | 2. Weapons and other combat vehicles | 324,800 | | | | 201,600 |
| | Total direct | 2,719,800 | | | | 2,447,820 |
| | Reimbursable program (total) | 490,700 | | | | 417,095 |
| | Total | 3,210,500 | | | | 2,864,915 |
| Financing: | | | | | | |
| Offsetting collections from: | | | | | | |
| 11.00 | Federal funds | -60,600 | | | | -60,600 |
| 13.00 | Trust funds | -430,100 | | | | -430,100 |
| 24.40 | Unobligated balance available, end of year | | | | | 345,585 |
| 40.00 | Budget authority | 2,719,800 | | | | 2,719,800 |

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 2

Introductory Statement

3-10 1/15/81

DEPARTMENT OF THE ARMY
ANNUAL BUDGET ESTIMATES

FY 1982, 83
Budget

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 2 - INTRODUCTORY STATEMENT

This appropriation finances the acquisition of tanks; personnel, mortar, cargo, and command post carriers; fighting vehicles; combat engineer vehicles; recovery vehicles; self-propelled and towed howitzers; machine guns; mortars; modification of in-service equipment; spares and repair parts; and production base support.

The 1982 program provides for continued procurement of XM1 series tank; infantry and cavalry fighting vehicles; training equipment; smoke grenade launchers; spare parts; and machine guns. Funds are provided for production of the Division Air Defense Gun Systems and XM252 81mm mortar. Funds are also included for modification of M60 series tanks, self-propelled and towed howitzers, and mortar and personnel carriers. Funding resources are provided for the rehabilitation of production facilities and to establish depot maintenance facilities for tracked combat vehicles.

The FY 1983 program provides for continued procurement of XM1 tanks; infantry and cavalry fighting vehicles; training equipment; spare parts; smoke grenade launchers; Division Air Defense Gun Systems; machine guns; and mortars. Funds are also included for modifications of self-propelled howitzers; fire support vehicles; mortar, and personnel carriers. Funding resources are provided for continued rehabilitation of production facilities and establishment of depot facilities.

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 3

Summary of Requirements

3-12 1/15/81

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation:

| | FY 1980 Actual | FY 1981 Estimate | FY 1982 Estimate |
|---|-------------------|---------------------|---------------------|
| Procurement of Weapons & Tracked Combat Vehicles, Army | | | |
| Tracked Combat Vehicles..... | \$1,651,654 | \$2,273,400 | \$2,395,000 |
| Weapons and Other Combat Vehicles..... | 159,415 | 308,800 | 324,800 |
| Total Direct Program..... | \$1,811,069 | \$2,582,200 | \$2,719,800 |
| Reimbursable Program..... | 1,274,828 | 816,100 | 490,700 |
| TOTAL PROGRAM REQUIREMENTS..... | \$3,085,897 | \$3,398,300 | \$3,210,500 |
| Less: Portion of program to be obligated in subsequent fiscal years..... | \$ 610,270 | \$ 380,569 | \$ 345,585 |
| Plus: Obligations incurred against prior year program funds..... | 217,341 | 415,769 | 366,085 |
| TOTAL OBLIGATIONS..... | \$2,692,968 | \$3,433,500 | \$3,231,000 |

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

| Appropriation: | FY 1983 Estimate |
|---|---------------------|
| <u>Procurement of Weapons & Tracked Combat Vehicles, Army</u> | |
| Activity 1 - Tracked Combat Vehicles..... | \$2,624,500 |
| Activity 2 - Weapons and Other Combat Vehicles..... | \$ 393,000 |
| Total Direct Program | \$ 3,017,500 |

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 4

Budget Activity Justifications

Activity 1 - Tracked Combat Vehicles

Activity 2 - Weapons and Other Combat Vehicles

3-15 1/15/81

| Department of the Army Annual Budget Estimates JUSTIFICATION | Appropriation | FY 1982 | |
|--|---------------|--|------------------|
| | | Procurement of Weapons & Tracked Combat Vehicles, Army | |
| | | (In Thousands of Dollars) | |
| Budget Program or Budget Project Account | Actual | Estimate | |
| | | Fiscal Year 1980 | Fiscal Year 1982 |
| Activity 1 - Tracked Combat Vehicles | | | |
| Direct Obligations of Direct Budget Plan | \$1,651,700 | \$2,273,400 | \$2,395,000 |

Section 1 - PURPOSE AND SCOPE

Provide for procurement of tracked combat vehicles including XM1 tanks, infantry and cavalry fighting vehicles, training equipment, and associated equipment. The request also provides for modification kits, major assembly repair parts (including initial provisioning), related production base support and depot maintenance plant equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Tracked Combat Vehicles - The requested funding level provides for continued procurement of the following tracked combat vehicles: XM1 tank to provide qualitative improvements to the tank inventory and to meet tank fleet modernization goals; fighting vehicles to complement the XM1 tank as a combined arms team. To further improve and enhance Army material readiness of high-priority combat vehicles, funds are requested for the following modification programs: upgrade of the current fleet of the M113 family of carriers and Improved Tow Vehicles; enhancement of M10 self propelled howitzers; and upgrade of some M60A1 tanks to the rise passive configuration. Each of the major items included in this request is discussed below:

Fighting Vehicle System (FVS) - \$693.1 million is requested for production of 464 Infantry and Cavalry Fight Vehicles (IFV/CFV). The IFV/CFV is designed to be compatible with the new XM1 main battle tank and provide improve fire power, cross-country mobility, and ballistic protection to infantry squads and cavalry sections. The armament is designed to engage an array of enemy targets and will include a two-man turret employing a 25mm automatic cannon, the TOW antitank guided missile system, and a 7.62mm coaxial machine gun, all utilizing an integrated day/night thermal sight. Using the organic 5.56mm firing port weapon, the mounted infantry will be able to deliver suppressive fires around the vehicle. Interior configuration varies in the CFV to allow for differences in crew size and storage requirements.

Training Devices F/IFV/CFV: \$6.7 million is requested for initial procurement of unit conduct of fire trainers for fighting vehicle system crews. These trainers will be deployed to locations of maneuver battalions to permit year round continuous crew proficiency training in firing IFV/CFV armament. Training devices will employ highly realistic battle scenario simulation rather than

Department of the Army
Annual Budget Justification
JUSTIFICATION

FY 1982

| Appropriation | Budget |
|--|--|
| Procurement of Weapons and Tracked Combat Vehicles, Army | Budget Program or Budget Project Account |
| | Activity 1 - Tracked Combat Vehicles |

actual firing on the range. Not only will this provide a much wider range of battle conditions and situations than could be obtained on firing ranges, but also substantial ammunition expenditure and attendant costs will be avoided and the strain on limited range facilities will be lessened.

Tank, Combat, FT, 105mm Gun, XM1 - \$1043.8 million is requested for procurement of 569 XM1 tanks. The XM1 tank is a superior tank to the M60 series tank. It will have significantly improved survivability provided by better ballistic protection and compartmentalization of ammunition and fuel. Its 1500 hp turbine engine and improved suspension system will provide greater cross-country speed and shoot-on-the-move capability. The XM1 tank will be the Army's primary weapon system for armor battalions and is needed to counter the threat of the 1980's and 1990's.

Advance Procurement, Tank, Combat, FT, 105mm Gun, XM1 - \$218.1 million is requested for procurement of long-leadtime manufacturing items, components, and government-furnished equipment to support the FY 1983 production of XM1 tanks.

Training Equipment for Tank, XM1 - \$45.1 million is requested for procurement of training equipment required in the XM1 crew and maintenance personnel training program. Use of training equipment permits more efficient utilization of training areas and provides continuous training of personnel which reduces wear on actual equipment.

Carrier, Modification (MOD) - \$30.4 million will procure 2644 improved suspension and cooling kits which will improve cross-country mobility and reliability of the M113 carrier family.

Howitzer, Heavy, SP, FT, 8-Inch, M110 Series (MOD) - \$10.5 million is requested to continue the procurement of the reliability, availability, and maintainability (RAM) improvements for the turret, chassis and gun mount. This funding also supports an engineering review of other possible midlife improvements.

Tank, Combat, FT, 105mm Gun, M60 Series (MOD) - \$11.7 million is requested to procure 140 modification kits to convert M60A1 engines to Rise/Passive configuration. This replaces M60A1 Rise/Passive Tanks which will be diverted to the Marine Corps per OSD direction.

Spares and Repair Parts - \$252.1 million is requested for procurement of initial and replenishment spares and repair parts related to tracked combat vehicles.

Department of the Army
Annual Budget Justification
JUSTIFICATION

FY 1982

| Appropriation | | Budget Program or Budget Project Account | Budget |
|--|--|--|--------|
| Procurement of Weapons and Tracked Combat Vehicles, Army | | Activity 1 - Tracked Combat Vehicles | |

Items Less Than \$900,000 - \$0.9 million is requested for procurement of maintenance and repair equipment for tracked combat vehicles. Equipment to be procured includes shop sets and tool kits.

Production Base Support - \$82.6 million is requested for production base support, which include depot maintenance plant equipment requirements. Major areas of emphasis are: XM1 production support and equipment replacement \$19.1 million; 120mm gun facilitization for integration \$4.7 million; rehabilitation of the Stratford Army Engine Plant \$4.4 million; and modernization of fire control production facilities \$3.0 million. The FY82 request also includes \$7.6 million for layaway of equipment excess to production, \$11.4 million for various manufacturing methods and technology projects, and \$1.0 million for military adaptation of commercial items. \$31.4 million is requested to procure capital investment equipment required to support depot maintenance operations associated with tracked combat vehicles. The requirement for equipment arises from new mission assignment projections, increased workload, facility modernization, and age/wear considerations. With the introduction of the M60A3 and XM1 tanks and the Fighting Vehicle System, depot maintenance facilities must be established both in the US and Europe to support the overhaul and repair of these vehicles. The equipment to be procured will provide the depots with the capability to more rapidly diagnosis, repair, and check out the electrical and mechanical subsystems of these vehicles.

| Department of the Army Annual Budget Estimates JUSTIFICATION Budget Program or Budget Project Account | Appropriation | | FY 1982 |
|--|--|------------------|-------------|
| | Procurement of Weapons & Tracked Combat Vehicles, Army | | |
| | (In Thousands of Dollars) | | |
| | Estimate | | |
| Activity 1 - Tracked Combat Vehicles | | Fiscal Year 1983 | |
| Direct Obligations or Direct Budget Plan | | | \$2,624,500 |

Section 1 - PURPOSE AND SCOPE

Provides for procurement of tracked combat vehicles including tanks, infantry and cavalry fighting vehicles, fire support team carriers; and associated equipment. The request also provides for modification kits, major assembly repair parts (including initial provisioning), related production base support, and depot maintenance plant equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Tracked Combat Vehicles - The requested funding level provides for continued procurement of the following tracked combat vehicles: XM1 tanks and Fighting Vehicles Systems to meet modernization goals and improve near-term readiness and sustainability. To further improve/enhance Army materiel readiness of high-priority combat vehicles, the following modification programs are continued: M113 family of carriers, and the M110 series howitzer. Funds are also requested for initial procurement of Fire Support Team Vehicle (FISTV) kits. Each of the major items included in this request is discussed below:

Fighting Vehicle Systems (FVS) - \$652.0 million is requested to procure 427 Fighting Vehicle Systems. The FVS is designed to be compatible with the new XM1 main battle tank, with improved fire power, cross-country mobility, and ballistic protection for infantry squads and cavalry sections. The armament is designed to engage an array of enemy targets and will include a two-man turret employing a 25mm automatic cannon, the tube-launched, optically tracked, wire-guided (TOW) antitank guided missile system, and a 7.62mm coaxial machine gun, all utilizing an integrated day/night thermal sight. Using the organic 5.56mm firing port weapon, the mounted infantry will be delivering suppressive fires around the vehicle. Interior configuration varies in the Cavalry Fighting Vehicle to allow for differences in crew size and storage requirements.

Training Devices F/IFV/CFV: \$32.5 million is requested to continue procurement of conduct of fire trainers and to purchase turret maintenance trainers for schools. The turret maintenance trainers, also computer driven simulation devices, permit insertion of a wide selection of system faults and greatly enhance fault isolation and diagnostic skill development.

Tank, Combat, FT, 105mm Gun, XM1 Series - \$1029.7 million is requested for procurement of 627 XM1 tanks. The XM1 will be a highly mobile vehicle with significantly improved survivability provided by improved ballistic protection and compartmentalization. It will mount a large-caliber gun and two complementary armament systems with improved fire control and shoot-on-the-move capability. The XM1 tank will become the Army's main battle tank in armor units. It will be used as the primary offensive weapon of the Army's combined arms team to counter the threat of the 1980's. Considering all prime tank assets, the asset posture is 76 percent of the acquisition objective.

Department of the Army
Annual Budget Justification
JUSTIFICATION

FY 1982

| Appropriation | Budget Program or Budget Project Account | Budget |
|---|--|--------|
| Procurement of Weapons and Tracked Combat Vehicles Army | Activity 1 - Tracked Combat Vehicles | |

Advanced Procurement, Tank Combat, FT, 105mm Gun, XM1 - \$330.2 million is requested for procurement of long-leadtime manufacturing items, components, and government - furnished equipment to support the FY 1984 production XM1 tanks.

Training Equipment for XM1 Tank - \$54.6 million is requested to procure training equipment for use in XM1 crew and maintenance personnel training programs. Use of training equipment permits more efficient utilization of training areas and provides continuous training of personnel which reduces wear on actual equipment.

Carrier Modifications (MOD) - \$33.0 million is requested for procurement of 2333 kits to provide improved suspension and improved cooling to M13A1 carrier series.

Fire Support Team Vehicle (FISTV) (MOD) - \$87.3 million is requested to provide funds for tooling and the initial procurement of 225 kits for the Fire Support Team Vehicles an integrated system platform which will provide under-armor protection for the Ground Laser Locator Designator. Mounted on an M113 carrier, the FISTV will increase the capability of the artillery Fire Support Team to provide rapid, accurate indirect fire support to the maneuver forces.

Howitzer, Heavy, SP, FT, 8-Inch M110A2 (MOD) - \$23.7 million is requested to complete the procurement of the reliability, availability, and maintainability (RAM) improvements for the M110 weapon system. These funds will also initiate the procurement for the crew ballistic protection shelter and the gun tube liner.

Spares and Repair Parts - \$305.4 million is requested for procurement of initial and replenishment spares and repair parts items related to tracked combat vehicles.

Items Less Than \$900,000 - \$9.9 million is requested for the procurement of maintenance and repair equipment for tracked combat vehicles.

Production Base Support - \$75.2 million is requested for production base support which includes depot maintenance plant equipment. \$34.8 million is requested to provide annual production support and equipment replacement to maintain current tank and howitzer production rates. \$6.1 million is requested for manufacturing equipment required at the tank production facilities for incorporation of the 120mm gun on the XM1 tank. \$4.3 million to continue rehabilitation of the Stratford Army Engine Plant, and \$1.2 million to modernize fire control facilities. A balance of the request provides \$4.9 million for layaway of the M60 series tank production lines, and \$12.0 million for various manufacturing methods and technology projects and for adaptation of commercial items for military use. \$11.9 million is requested to procure capital investment equipment required to support depot maintenance operations associated with tracked combat vehicles. The requirement for equipment arises from new mission assignment projections,

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FY 1982

Department of the Army
Annual Budget Justification
JUSTIFICATION

Budget

Budget Program or Budget Project Account

Appropriation

Activity 1 - Tracked Combat Vehicles

Procurement of Weapons and Tracked Combat Vehicles, Army

increased workload projection, facility modernization and age/wear considerations.

| Department of the Army Annual Budget Estimates JUSTIFICATION | Appropriation | FY 1982 | |
|--|---------------|---|------------------|
| | | Procurement of Weapons & Tracked Combat Vehicles, Army Budget | |
| | | (In Thousands of Dollars) | |
| Budget Program or Budget Project Account | | Actual | Estimate |
| Activity 2 - Weapons and Other Combat Vehicles | | Fiscal Year 1980 | Fiscal Year 1981 |
| Direct Obligations or Direct Budget Plan | | \$159,400 | \$308,800 |
| | | | \$324,800 |

Section 1 - PURPOSE AND SCOPE

Provides for procurement of weapons and other combat vehicles including air defense weapons, mortars, machine guns, and associated equipment. The request also provides for modification kits, procurement of depot repairable major assembly repair parts (including initial provisioning), related production base support, and depot maintenance plant equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Weapons and Other Combat Vehicles - The requested funding level provides for continued procurement of the firing port and vehicle rapid fire weapon system (VRFWS) BUSHMASTER weapons, M240 machine gun, radar chronograph, smoke grenade launcher, and associated equipment. Funding is also requested for the initial procurement of the division air defense (DIVAD) gun system, XM252 81mm mortar, and squad automatic weapon (SAW). Each of the items included in this request is discussed below:

DIVAD Gun - \$87.2 million is requested for initial procurement of 12 DIVAD guns. This system will provide air defense for divisional maneuver elements, against attack by armed helicopters and high-performance fixed wing aircraft.

Armor Machine Gun, 7.62mm, M240 - \$27.0 million is requested for procurement of 5400 machine guns. This request will continue the five-year multiyear procurement from a continental United States (CONUS) producer. The resultant asset posture is 36 percent of the acquisition objective.

Squad Automatic Weapon (SAW) - \$14.6 million is requested for initial procurement of 4600 Squad Automatic Weapons. This light-weight, highly mobile machine gun delivers sustained fire and increased range which will greatly enhance the effectiveness of the infantry rifle squads.

Chronograph, Radar, M90 - \$3.4 million is requested to procure 120 chronographs. This item enables improved firing accuracy of field artillery weapons. The resultant asset posture is 57% of the acquisition objective.

Department of the Army
Annual Budget Justification

FY 1982

| JUSTIFICATION | Budget |
|--|---|
| Appropriation | Budget Program or Budget Project Account |
| <u>Procurement of Weapons & Tracked Combat Vehicles, Army</u> | <u>Activity 2 - Weapons & Other Combat Vehicles</u> |
| <u>Mortar, 81mm, XM252 - \$8.3 million is requested to procure 300 XM252 81mm mortars. The improved mortar replaces the M30 4.2-inch mortar as the battalion mortar for nonmechanized infantry and the M29 81mm mortar as the company mortar for mechanized infantry. The system is composed of both United Kingdom and US-produced components.</u> | |
| <u>Vehicle Rapid Fire Weapons System (VRFWS) (BUSHMASTER) - \$32.2 million is requested for the procurement of 72 25mm VRFWS, BUSHMASTER weapons. The BUSHMASTER is the primary armament for the Fighting Vehicle Systems.</u> | |
| <u>Firing Port Weapon - \$20.0 million is requested to continue the procurement of 18,850 XM231 5.56mm firing port weapons. This sub-machine gun is a derivative of the M16A1 rifle. Six weapons will be mounted in the squad compartment of the Infantry Fighting Vehicle, two on each side and two in the rear.</u> | |
| <u>Howitzer, 155mm, M114A2 (MOD) - \$8.6 million is requested to modify 238 howitzers with an improved barrel that extends the maximum range capability and permits the utilization of the recently developed ammunition.</u> | |
| <u>Launcher Smoke Grenade (MOD) - \$4.6 million is requested to continue procurement of these protective smoke systems for combat vehicles. This is an efficient defense system against antitank missiles.</u> | |
| <u>Heading Reference Set (Magnetic Set) (MOD) - \$3.6 million is requested for initial procurement of the Heading Reference Set (MS). This set is a low cost unit that provides vehicle heading information to assist the combat vehicle driver maintain orientation during periods of limited visibility.</u> | |
| <u>Heading Reference Set (Gyro Group) (MOD) - \$1.9 million is requested for initial procurement of this item. It is a directional gyro unit that is used in conjunction with the Heading Reference Set (MS) to provide the armored unit commander with more accurate vehicle heading information.</u> | |
| <u>Modification Under \$900,000 - \$1.0 million is requested for modifications of under \$900,000. Funds are included to improve the current M29 series 81mm mortar baseplates to reduce displacement in sandy soil and eliminate socket seizure problems. The improved baseplate will be applied only to those mortars which will remain in the Army inventory following procurement of the XM252 mortar. Funds are included for improvements to the M102 105mm towed howitzer.</u> | |
| <u>Spares and Repair Parts - \$24.2 million is requested for procurement of initial and replenishment spares and repair parts related to weapons and other combat vehicles.</u> | |

Department of the Army
Annual Budget Justification
JUSTIFICATION

FY 1982

Budget

Budget Program or Budget Project Account

Appropriation

Activity 2 - Weapons & Other Combat Vehicles

Procurement of Weapons & Tracked Combat Vehicles, Army

Items Less Than \$900,000 - \$3.5 million is requested for procurement of shop sets and tool sets for maintenance and repair of weapons and other combat vehicles.

Production Base Support - Production base support programs require \$84.7 million in FY 1982, of which \$40.8 million continues the modernization of the cannon production base at Watervliet Arsenal. The request includes \$14.7 million for replacement of production equipment and industrial plant equipment at Watervliet and Rock Island Arsenal, \$7.4 million for production facilities for the 120mm gun, and \$7.9 million for rehabilitation of small arms production facilities. Additionally, \$10.4 million is being requested for manufacturing methods and technology, \$1.4 million for layaway of industrial facilities and \$2.1 million for military adaptation of commercial items.

Department of the Army
Annual Budget Estimates
JUSTIFICATION

Appropriation

FY 1982

Procurement of Weapons & Tracked Combat Vehicles, Army Budget
(\$ in Thousands of Dollars)

Budget Program or Budget Project Account

Activity 2 - Weapons and Other Combat Vehicles

Estimate

Fiscal Year 1983

Direct Obligations or Direct Budget Plan

\$393,000

Section 1 - PURPOSE AND SCOPE

Provides for procurement of weapons and other combat vehicles including air defense weapons, towed artillery, mortars, machine guns, and associated equipment. The request also provides for modification kits, procurement of depot repairable major assembly repair parts (including initial provisioning), related production base support, and depot maintenance plant equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Weapons and Other Combat Vehicles - The requested funding provides for continued procurement of the division air defense gun (DIVAD), the XM252 81mm mortar, the squad automatic weapon, the M90 radar chronograph, the vehicle rapid fire weapon system (VRFWS) FISHMASTER and the M240 machine gun. Modification programs are continued for the smoke grenade launchers, and the magnetic heading set with gyro systems. Each of the major items included in this request is discussed below:

DIVAD Gun - \$172.1 million is requested for the second year procurement of 24 DIVAD Guns. This system will provide air defense for divisional maneuver elements against attack by armed helicopters, and high performance, fixed wing aircraft.

Armor Machine Gun, 7.62mm, M240 - \$28.9 million is requested for procurement of 5400 M240 machine guns. This request will complete the five year multiyear procurement from a continental United States (CONUS) producer. The resultant asset posture is 45 percent of the acquisition objective.

Squad Automatic Weapon (SAW) - \$15.7 million is requested for the second year buy of 6000 Squad Automatic Weapons. This is a one man weapon which can deliver a sustained volume of automatic, accurate and lethal fire at ranges up to 1000 meters. It will greatly enhance infantry rifle squad effectiveness.

Chronograph, Radar, M90 - \$3.9 million is requested to procure 122 chronographs. This is the final year of a multiyear procurement. This item enables improved firing accuracy of field artillery weapons. The resultant asset posture is 63% of the acquisition objective.

XM252 81mm Mortar - \$18.5 million is requested to procure 636 XM252 81mm mortars. The improved mortar replaces the M30 4.2 inch mortar as the battalion mortar for nonmechanized infantry and the M29 81mm mortar as the company mortar for mechanized infantry. The system is composed of both United Kingdom and US produced components.

| Department of the Army Annual Budget Justification | | FY 1982 |
|--|--|---------|
| JUSTIFICATION | | Budget |
| Appropriation | Budget Program or Budget Project Account | |
| Procurement of Weapons & Tracked Combat Vehicles, Army | Activity 2 - Weapons & Other Combat Vehicles | |

Vehicle Rapid Fire Weapons Systems (VRFWS) (BUSHMASTER) - \$29.0 million is requested for the procurement of 488 25mm VRFWS, BUSHMASTER. The BUSHMASTER is the primary armament for the Fighting Vehicle Systems.

Launcher Smoke Grenade (MOD) - \$4.6 million is requested to continue procurement of these protective smoke systems for combat vehicles. This is an efficient defense system against antitank missiles.

Heading Reference Set (Magnetic Set) (MOD) - \$3.7 million is requested to continue procurement of this item. It is a low cost unit that provides vehicle heading information to assist the combat vehicle driver maintain orientation during periods of limited visibility.

Heading Reference Set (Gyro Group) (MOD) - \$1.9 million is requested to continue procurement of the Heading Reference Set-Gyro. It is a directional gyro unit that is used in conjunction with the Heading Reference Set (MS) to provide the armored unit commander with more accurate heading information.

Modifications Under \$900,000 - \$9.9 million is requested for modifications to the M102 105mm towed howitzer. Improvements include recoil mechanism, radioactive fire control, travel lock bracket, and wheel support lubrication.

Spares and Repair Parts - \$45.0 million is requested for procurement of initial and replenishment spares and repair parts related to weapons and other combat vehicles.

Items Less Than \$900,000 - \$2.7 million is requested for procurement of shop sets and tool sets for maintenance and repair of weapons and other combat vehicles.

Production Base Support - Production base support programs require \$66.1 million in FY 1983 of which \$32.2 million continues the modernization of the cannon production base at Watervliet Arsenal and initiates modernization efforts at Rock Island Arsenal. The request includes \$18.7 million for replacement of production equipment and industrial plant equipment at Watervliet and Rock Island Arsenals. Additionally, \$14.6 million is being requested for manufacturing methods and technology, layaway of industrial facilities, and military adaptation of commercial items. \$6 million is required for procurement of capital equipment required to support depot maintenance operations associated with weapons and other combat vehicles. Requirements represent new mission assignment projections, projected increased workload, facility modernization, and age/wear considerations.

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 5

Comparison of Program Requirements and Financing

Comparison of FY 1981 program requirements as reflected in FY 1981 budget with FY 1981 program requirements as shown in FY 1982 budget.

Comparison of FY 1981 financing as reflected in FY 1981 budget with FY 1981 financing as shown in FY 1982 budget.

Comparison of FY 1980 program requirements as reflected in FY 1981 budget with FY 1980 program requirements as shown in FY 1982 budget.

Comparison of FY 1980 financing as reflected in FY 1981 budget with FY 1980 financing as shown in FY 1982 budget.

COMPARISON OF FY 1981 PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1981 BUDGET WITH
FY 1981 PROGRAM REQUIREMENTS AS SHOWN IN FY 1982 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

| | Total Program | | Program Requirements | | Increase (+) or Decrease (-) |
|--|---------------|------------------|----------------------|--|------------------------------------|
| | Requirements | Per FY 81 Budget | Per FY 1982 Budget | | |
| PROCUREMENT OF WEAPONS & TRACKED COMBAT VEHICLES, ARMY | | | | | |
| Activity 1 - Tracked Combat Vehicles | \$2,244,700 | | \$2,273,400 | | \$+ 28,700 |
| Activity 2 - Weapons and Other Combat Vehicles | 274,300 | | 308,800 | | \$+ 34,500 |
| TOTAL | \$2,519,000 | | \$2,582,200 | | \$+ 63,200 |

Explanation by Activity

Activity 1 - Tracked Combat Vehicles - A net increase of \$28.7 million resulted from a transfer of \$1.1 million from Activity 1 (Carrier Cargo, FT, M548 \$.8 million and Recovery Vehicle, Med, FT, M88A1 \$.3 million) to Activity 2; and Congressional adjustments (+\$29.8 million) to the FY 1981 Budget as follows:

Net Change (In Thousands)

XML Adv Proc
Tank, Combat, M60 Series (MOD)
Special Contingency
Carrier, Cargo, FT, M548
Carrier, Personnel, M113
Howitzer Med, SP, FT, 155mm, M109
Recovery Vehicle M88

\$+39,000
+25,000
-34,200
-(2,400)
-(4,800)
-20,200
-(6,800)
\$+29,800

TOTAL (NET CHANGE)

Activity 2 - Weapons and Other Combat Vehicles - A net increase of \$34.5 million resulted from transfer of \$1.1 million from Activity 1 to the M240 machine gun; and Congressional adjustments (+\$33.4 million) to the FY81 Budget as follows:

Division Air Defense Gun
Division Air Defense Gun, Adv Proc
Howitzer, Med, Towed, 155mm, M198

\$- 95,300
140,000
- 11,300
\$+ 33,400

(Special Contingency)

TOTAL (NET CHANGE)

3-28 1/15/81

COMPARISON OF FY 1981 FINANCING AS REFLECTED
IN THE FY 1981 BUDGET WITH FY 1981 FINANCING
AS SHOWN IN FY 1982 BUDGET

| | (In Thousands of Dollars) | | |
|--|------------------------------------|------------------------------------|------------------------------------|
| | Financing Per FY 1981 Budget | Financing Per FY 1982 Budget | Increase (+) or Decrease (-) |
| Appropriation: | | | |
| Procurement of Weapons & Tracked Combat Vehicles, Army | | | |
| Program Requirements, (Total) | \$2,918,000 | \$3,398,300 | \$ +480,300 |
| Program Requirements (Service Account) | (2,519,000) | (2,582,200) | (+ 63,200) |
| Program Requirements (Reimbursable) | (399,000) | (816,100) | (+417,100) |
| Less: | | | |
| Anticipated reimbursements | 399,000 | 816,100 | +417,100 |
| Reprogramming from prior year budget plans | 0 | 0 | 0 |
| Unobligated balance available from prior year to finance new budget plans | 0 | 0 | 0 |
| Unobligated balance transferred to other accounts | 0 | 0 | 0 |
| Add: | | | |
| Unobligated balance transferred to other accounts | 0 | 0 | 0 |
| Unobligated balance available to finance subsequent year budget plans | 0 | 0 | 0 |
| BUDGET AUTHORITY | \$2,519,000 | \$2,582,200 | \$ +63,200 |
| Appropriation | \$2,519,000 | \$2,582,200 | \$ + 63,200 |
| Transferred from other accounts | 0 | 0 | 0 |
| Transferred to other accounts | 0 | 0 | 0 |
| Appropriation (adjusted) | \$2,519,000 | \$2,582,200 | + 63,200 |
| Appropriation total | \$2,519,000 | \$2,582,200 | \$ + 63,200 |

EXPLANATION OF CHANGES IN FINANCING
3-29 1/15/81

COMPARISON OF FY 1980 PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1981 BUDGET WITH
FY 1980 PROGRAM REQUIREMENTS AS SHOWN IN FY 1982 BUDGET

| SUMMARY OF REQUIREMENTS (In Thousands of Dollars) | | | | |
|---|--|----------------------------|--|------------------------------------|
| Appropriation: | PROCUREMENT OF WEAPONS & TRACKED COMBAT VEHICLES, ARMY | Total Program Requirements | | Increase (+) or Decrease (-) |
| | | Per FY 1981 Budget | Program Requirements Per FY 1982 Budget | |
| Activity 1 - Tracked Combat Vehicles | | \$1,641,600 | \$1,651,654 | \$+10,054 |
| Activity 2 - Weapons and Other Combat Vehicles | | 182,900 | 159,415 | -23,485 |
| | TOTAL | \$1,824,500 | \$1,811,069 | \$-13,431 |

Explanation by Activity

Activity 1 - Tracked Combat Vehicles - A net increase of \$10.1 million resulted from a reprogramming increase of \$58.1 million from the Reimbursable Account to the Tank, Combat, M60 Series; a reprogramming decrease of \$13.0 million to Military Pay and Allowance appropriation; and \$9.8 million to TACFIRE in the OPA procurement account; a transfer of \$2.4 million to Activity 2 as follows: Recovery Vehicle M88A1 - \$0.8 million, Spares and Repair Parts - \$1.0 million, and Howitzer, Med, SP, FT, 155mm M109 - \$0.6 million; and the FY80 supplemental decrease of - \$22.8 million as follows: (Tank, Combat, FT, M60 series, MOD - \$27.0 million), and (an increase of \$4.2 million for inflation).

Activity 2 - Weapons and Other Combat Vehicles - A net decrease of - \$23.5 million resulted from the FY80 supplemental decrease of -\$25.9 million to the Howitzer, Towed, 155mm, M198 and, a transfer of \$2.4 million from Activity 1 as follows: (Spares and Repair Parts, +\$1.0 million) and (Machinegun, 7.62mm, M240 +\$1.4 million).

COMPARISON OF FY 1980 FINANCING AS REFLECTED
IN THE FY 1981 BUDGET WITH FY 1980 FINANCING
AS SHOWN IN FY 1982 BUDGET

| | (In Thousands of Dollars) | | |
|--|------------------------------------|------------------------------------|------------------------------------|
| | Financing Per FY 1981 Budget | Financing Per FY 1982 Budget | Increase (+) or Decrease (-) |
| Appropriation: | | | |
| Procurement of Weapons & Tracked Combat Vehicles, Army | | | |
| Program Requirements, (Total) | \$2,224,500 | \$3,085,897 | \$ +861,397 |
| Program Requirements (Service Account) | (1,824,500) | (1,811,069) | (- 13,431) |
| Program Requirements (Reimbursable) | (400,000) | (1,274,828) | (+874,828) |
| Less: | | | |
| Anticipated reimbursements | 400,000 | 1,332,929 | 932,929 |
| Reprogramming from prior year budget plans | 0 | 0 | 0 |
| Unobligated balance available from prior year to finance new budget plans | 0 | 0 | 0 |
| Unobligated balance transferred from other accounts ... | 0 | 0 | 0 |
| Add: | | | |
| Unobligated balance transferred to other accounts | 0 | 0 | 0 |
| Unobligated balance available to finance subsequent year budget plans | 0 | 0 | 0 |
| BUDGET AUTHORITY | \$1,824,500 | \$1,752,968 | \$ - 71,532 |
| Appropriation | \$1,824,100 | \$1,824,100 | \$ 0 |
| Transferred from other accounts | 12,100 | 12,100 | 0 |
| Transferred to other accounts | -11,700 | -83,232 | - 71,532 |
| Appropriation (adjusted) | \$1,824,500 | \$1,752,968 | \$ - 71,532 |

EXPLANATION OF CHANGES IN FINANCING

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 6

Selected Data Sheets

NOT USED

3-32 1/15/81

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 7

Analysis of Unobligated Balances

3-33 1/15/81

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Analysis of Unobligated Balances - FY 1982 Programs*

Summary by Category

| <u>Category</u> | <u>Estimated Unobligated</u> | |
|----------------------------------|------------------------------|---------------------------|
| | Dollars (Millions) | % of Total Unobligated |
| 1. Reserved to support contracts | \$478.7 | 75.0 |
| 2. Engineering changes | 51.0 | 8.0 |
| 3. Other | 108.5 | 17.0 |
| | <u>\$638.2</u> | <u>100.0%</u> |
| Total Unobligated FY 1981 | | |

EXPLANATION BY CATEGORY

Based on past experience, it is predicted that the above amount will remain unobligated at the end of FY 81. Reasons for the unobligated balance have been grouped into three general categories, and are detailed below. These unobligated amounts will, therefore, be required in subsequent fiscal years to complete the procurement of the FY 81 program.

1. Reserved to Support Contracts:

- a. Amounts reserved for incentive contract payments.
- b. Amounts held to support Product and Component Improvement Programs; modification for retrofit during production; modification ordered by customers.
- c. Contractor claims, reserves to cover potential liabilities for contracts containing escalation clauses for labor, or material cost increases and price redeterminations.
- d. Government-furnished equipment breakout procurements; preparations of manuals and technical data; and reserve for completion of construction elements of production base support facilities projects.
- e. Delay due to design or testing difficulties.
- f. Award protests.
- g. Insufficient procurement detail involving reimbursable orders.
- h. Develop adequate competitive procurement or technical data package.
- i. Items released to Army by other customers too late to permit obligation in FY 1981.

* Includes estimated FY 1980 and prior years carryover and other customer reimbursable program.

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY (Cont'd)

2. Engineering Changes:

- a. Engineering costs in support of production (obligated only as expenses are incurred).
- b. Validated engineering change orders to be incorporated into the current manufacturing process.
- c. Engineering changes as a result of acceptance testing.
- d. Amounts reserved to support engineering change proposals and value engineering proposals.

3. Other:

- a. Changes to the previously planned method of procurement (i.e., competitive in lieu of sole-source).
- b. Extension to bid opening dates.
- c. Additional time required to complete audits of cost data and to obtain contractor cost data.
- d. Unfavorable preaward surveys and extended negotiations.
- e. Held pending validation of production capability of low bidder.
- f. Attaining a satisfactory production rate prior to awarding additional work.

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 8

Modification

NOT USED

3-36 1/15/81

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 9

Flight Simulators

NOT USED

4-47 1-15/81

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 10

War Reserve - Secondary Items

Furnished Separately

DISTRIBUTION

ASD(C)
Plans & Systems
Construction
Procurement
Management Systems
ASD(MRA&L)
ASD(ISA)
ASD(C3I)
ASD(DFOISR)
AS, PA&E
AS, HA
AS, LA
USDRE
JCS
DAS
ASA(IL&FM)
ASA(RD&A)
ASA(M&RA)
OCLL
FOR: HASC
SASC
HBC
CBO
HPSCI
SSCI
NAVY
AIR FORCE
DACA-BUL
FOR: HAC
SAC
DACA-BUF
FOR: OMB
GAO
LOC

DACA-BMZ-A
DACS-DP
DACS-DMZ
DAAG-OPZ
DAAG-RM
DAMI-CIS
DAMI-RMB
DAMO-ZF
DALO-RMZ
DAEN-ZCP
DAAR-COB
NGB-ARC
DASG-RMB
DAAC-RMC
DAMH-2BB
DAMA-CA
DAMA-PP
DAMA-PPP
DAMA-PPR
DAMA-PPT
DAMA-WS
DAMA-WSA
DAMA-WSM
DAMA-WSW
DAMA-CS
DAMA-CSC
DAMA-CSM
DAMA-CSS

| REPORT DOCUMENTATION PAGE | | READ INSTRUCTIONS BEFORE COMPLETING FORM |
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| 1. REPORT NUMBER | 2. GOVT ACCESSION NO. HD 416 92-586 | 3. RECIPIENT'S CATALOG NUMBER |
| 4. TITLE (and Subtitle) (in 5 parts) Department of the Army Justification of Estimates for Fiscal Year 1982, Submitted to Congress January 1981, Procurement Programs, Aircraft, Missiles, Wpn and Tracked Cbt Veh, Ammunition and Other Proc, Army | | 5. TYPE OF REPORT & PERIOD COVERED Army Procurement Budget Justification, FY 1982 |
| 7. AUTHOR(s) Department of the Army | | 6. PERFORMING ORG. REPORT NUMBER |
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| 11. CONTROLLING OFFICE NAME AND ADDRESS HQDA, Office of the Deputy Chief of Staff for Research, Development, and Acquisition (DAMA-AOA-S) Washington, DC 20310 | | 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS |
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| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Army Procurement Programs Budget Justification Book covering Aircraft, Missiles, Weapons and Tracked Combat Vehicles, Ammunition and Other Procurement, Army Appropriations programs submitted by the Army to Congress January 1981 for Fiscal Year 1982. | | |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) In justification of programs requested, this document, in separate volume for each of the five Procurement Appropriations, provides backup data for the Army Budget submission for FY 1982. Included are Summaries of Requirements, Program and Financing Statements and Selected Data Sheets. (This document has been declassified for NTIS distribution). | | |

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